



Water-Data Report 2008

01442760 DUNNFIELD CREEK AT DUNNFIELD, NJ

DELAWARE RIVER BASIN

LOCATION.--Lat 40°58'15", long 75°07'36" (revised), referenced to North American Datum of 1983, Hardwick Township, Warren County, NJ, Hydrologic Unit 02040104, at footbridge at Dunnfield, in Delaware Water Gap National Recreation Area, 300 ft upstream from mouth and Delaware River, 0.6 mi northwest of Arrow Island, and 0.6 mi southeast of Delaware Water Gap Toll Bridge on Interstate 80.

DRAINAGE AREA.--3.56 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Miscellaneous measurements, water years 1998 to current year.

GAGE.--Staff gage.

**DISCHARGE MEASUREMENTS
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Date	Discharge, in ft ³ /s
Nov 19, 2007	9.32
Feb 14, 2008	81.4
May 5, 2008	6.64
Aug 27, 2008	0.43

01442760 DUNNFIELD CREEK AT DUNNFIELD, NJ—Continued**WATER-QUALITY RECORDS**

PERIOD OF RECORD.--Water years 1998 to current year.

REMARKS.--Cooperative Network Site Descriptor: Background and Low Level Mercury Assessment special study site, NJ Department of Environmental Protection Watershed Management Area 1. Samples on Nov 2 and Mar 12 were for the Low Level Mercury Assessment.

COOPERATION.--Physical measurements and samples for laboratory analysis on Nov 2 and Mar 12 were provided by personnel of the NJ Department of Environmental Protection. Determinations of dissolved ammonia, dissolved orthophosphate, and suspended residue were performed by the NJ Department of Health and Senior Services, Environmental and Chemical Laboratory.

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 1 of 6

[QC, quality control sample. Remark codes: <, less than; E, estimated.]

Date	Time	Sample medium and type	Turbdty	UV	UV	Baro-	Dis-	Dis-
			Instan-	white	absorb-			
			taneous	light,	ance,	ance,	metric	oxy-
			dis-	det ang	254 nm,	280 nm,	pres-	dissolved
			charge,	90+/-30	wat flt	wat flt	sure,	oxygen,
			corrcrd	NTRU	/cm	/cm	mm Hg	mg/L
			(00061)	(63676)	(50624)	(61726)	(00025)	(00300)
								percent
								of sat-
								uration
								(00301)
Nov								
02...	1030	QC - Artificial, field blank	--	--	--	--	--	--
02...	1050	Surface water, regular	--	.3	--	--	764	10.8
19...	0920	Surface water, regular	9.3	.2	.024	.017	766	13.0
Feb								
14...	1200	QC - Artificial, churn blank	--	--	--	--	--	--
14...	1201	QC - Artificial, field blank	--	--	--	--	--	--
14...	1230	Surface water, regular	81	1.4	.035	.024	754	12.8
Mar								
12...	0958	QC - Artificial, field blank	--	--	--	--	--	--
12...	1010	Surface water, regular	--	.4	--	--	745	12.1
May								
05...	1130	Surface water, regular	6.6	.3	.019	E.016	756	11.6
Aug								
27...	0910	Surface water, regular	.43	1.0	E.015	E.011	755	9.6
								94

01442760 DUNNFIELD CREEK AT DUNNFIELD, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 2 of 6

[QC, quality control sample. Remark codes: <, less than; E, estimated.]

Date	Specif-										ANC,			
	pH, water, unfltrd field, std units (00400)	conduc- tance, wat unf μS/cm (00095)	Temper- ature, air, deg C (25 degC)	Temper- ature, water, deg C (00020)	Hard- ness, water, mg/L as CaCO3 (00900)	Calciu- m, water, mg/L (00915)	Magnes- ium, water, mg/L (00925)	Potas- sium, water, mg/L (00935)	Sodium, water, mg/L (00930)	fixed end pt, lab, mg/L as CaCO3 (90410)	Chlor- ide, water, mg/L (00940)	Fluor- ide, water, mg/L (00950)	Silica, water, filtrd, mg/L as SiO2 (00955)	
Nov														
02...	--	--	--	--	--	--	--	--	--	--	--	--	--	--
02...	7.0	30	8.0	9.5	--	--	--	--	--	--	--	--	--	--
19...	5.9	30	4.5	6.2	10	2.58	.915	.39	.74	2.6	1.13	<.12	4.5	
Feb														
14...	--	--	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--	--	--
14...	6.7	28	2.0	3.9	9	2.19	.837	.44	.59	E1.1	1.02	<.12	3.5	
Mar														
12...	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12...	6.6	29	5.5	4.8	--	--	--	--	--	--	--	--	--	--
May														
05...	7.8	30	17.0	10.3	10	2.42	.846	.42	.62	3.0	.97	<.12	4.5	
Aug														
27...	6.5	36	19.5	14.7	13	3.26	1.09	.48	.93	5.4	1.24	<.12	4.7	

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 3 of 6

[QC, quality control sample. Remark codes: <, less than; E, estimated.]

Date	Residue water, fltrd, mg/L (00945)		Residue on sum of consti- tuents wat flt (70301)		Residue at 180degC non-filter- able, mg/L (00530)		Ammonia + org-N, water, mg/L as N (00623)		Nitrate + Ammonia water, mg/L as N (00608)		Partic- ulate nitrite water, mg/L as N (00631)		Ortho- phosphate, water, mg/L as P (49570)		Phos- phorus, water, mg/L as P (00671)		Phos- phorus, water, mg/L as P (00666)		Total carbon, suspnd sedimnt total, mg/L (00665)		Inor- ganic carbon, suspnd sediment total, mg/L (00688)	
Nov																						
02...	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
02...	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
19...	7.89	E20	18	<1	E.08	.019	<.04	<.04	E.007	<.008	<.008	<.008	<.1	<.04								
Feb																						
14...	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
14...	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
14...	7.71	E17	18	5	<.14	<.010	E.03	E.03	E.004	<.008	E.005	.5	<.04									
Mar																						
12...	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
12...	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
May																						
05...	7.34	E19	22	<1	E.10	E.009	<.04	<.04	<.010	<.008	<.008	<.008	E.1	<.04								
Aug																						
27...	6.92	E23	19	5	<.14	.014	.21	<.04	E.007	E.004	E.005	<.1	<.04									

01442760 DUNNFIELD CREEK AT DUNNFIELD, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 4 of 6

[QC, quality control sample. Remark codes: <, less than; E, estimated.]

Date	Organic carbon, susnd sedimnt total, mg/L (00689)	Organic carbon, water, fltrd, (00681)	Arsenic water, fltrd, (01000)	Arsenic water, unfltrd (01002)	Barium, recover -able, μg/L (01007)	Beryll- ium, water, unfltrd recover -able, μg/L (01012)	Boron, water, unfltrd recover -able, μg/L (01020)	Boron, water, unfltrd recover -able, μg/L (01022)	Cadmium water, unfltrd recover -able, μg/L (01027)	Chrom- ium, water, unfltrd recover -able, μg/L (01034)	Copper, water, unfltrd recover -able, μg/L (01040)	Copper, water, unfltrd recover -able, μg/L (01042)	Iron, water, unfltrd recover -able, μg/L (01045)
Nov													
02...	--	--	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--	--	--
19...	<.1	.9	--	--	--	--	5.0	--	--	--	--	--	--
Feb													
14...	--	--	<.1	--	--	--	--	--	--	--	<1	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
14...	.5	1.4	E.05	<.60	16.4	.08	5.4	<8	.10	<.40	--	E.91	41
Mar													
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
May													
05...	<.1	.7	--	--	--	--	7.2	--	--	--	--	--	--
Aug													
27...	<.1	.6	.08	<.60	16.1	<.04	5.2	<8	.03	<.40	--	<1.2	8

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 5 of 6

[QC, quality control sample. Remark codes: <, less than; E, estimated.]

Date	Mangan- ese, water, unfltrd recover -able, μg/L (01051)	Lead, water, unfltrd recover -able, μg/L (01055)	Mercury water, fltrd, recover -able, μg/L (71890)	Mercury water, unfltrd, low level ng/L (50286)	Nickel, water, unfltrd recover -able, μg/L (71900)	Nickel, water, fltrd, recover -able, μg/L (01065)	Selen- ium, water, unfltrd recover -able, μg/L (01147)	Silver, water, unfltrd recover -able, μg/L (01077)	Zinc, water, fltrd, recover -able, μg/L (01090)	Zinc, water, unfltrd recover -able, μg/L (01092)	Methyl- mercury water, unfltrd, low level ng/L (50284)	
Nov												
02...	--	--	--	.06	--	--	--	--	--	--	--	<.04
02...	--	--	--	.70	--	--	--	--	--	--	--	<.04
19...	--	--	--	--	--	--	--	--	--	--	--	--
Feb												
14...	--	--	<.010	--	--	<.2	--	--	--	<1.8	--	--
14...	--	--	<.010	--	--	--	--	--	--	--	--	--
14...	.15	21.1	--	--	<.010	--	2.0	E.06	<.02	--	15.6	--
Mar												
12...	--	--	--	.05	--	--	--	--	--	--	--	<.04
12...	--	--	--	.66	--	--	--	--	--	--	--	<.04
May												
05...	--	--	--	--	--	--	--	--	--	--	--	--
Aug												
27...	E.04	1.2	--	--	<.010	--	.91	<.08	<.02	--	4.6	--

01442760 DUNNFIELD CREEK AT DUNNFIELD, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 1 of 7

[Remark codes: <, less than.]

Date	1-Naph-thol, water, fltrd 0.7u GF	2,6-Di-ethyl-aniline water, fltrd 0.7u GF	2Chloro- -2',6'-diethyl acetanilide water flt	CIAT, water, fltrd, 0.7u GF	2-Ethyl- -6-methyl-chloro-aniline water, fltrd, 0.7u GF	3,4-Di-chloro-aniline water, fltrd, 0.7u GF	3,5-Di-chloro-aniline water, fltrd, 0.7u GF	4-Chloro- 2methyl-phenol, water, fltrd, 0.7u GF	Aceto-chlor, water, fltrd, 0.7u GF	Ala-chlor, water, fltrd, 0.7u GF	alpha-Endo-sulfan, water, fltrd, 0.7u GF	Atra-zine, water, fltrd, 0.7u GF	Azin-phos-methyl oxon, water, fltrd, 0.7u GF
May 05...	<.04	<.006	<.010	<.014	<.010	<.006	<.008	<.005	<.006	<.006	<.006	<.007	<.06

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 2 of 7

[Remark codes: <, less than.]

Date	Azin-phos-methyl, water, fltrd 0.7u GF	Ben-flur-alin, water, fltrd 0.7u GF	Car-baryl, water, fltrd 0.7u GF	Carbo-furan, water, fltrd 0.7u GF	Chlor-pyrifos oxon, water, fltrd 0.7u GF	cis-Chlor-pyrifos water, fltrd 0.7u GF	cis-Per-methrin water, fltrd 0.7u GF	Propi-conazole, water, fltrd, 0.7u GF	Cyana-zine, water, fltrd, 0.7u GF	Cyflu-thrin, water, fltrd, 0.7u GF	Lambda-Cyhalothrin, water, fltrd, 0.7u GF	Cyper-methrin water, fltrd 0.7u GF	DCPA, water, fltrd 0.7u GF
May 05...	<.120	<.010	<.060	<.020	<.06	<.005	<.010	<.006	<.020	<.016	<.004	<.014	<.003

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 3 of 7

[Remark codes: <, less than.]

Date	Desulf-inyl-fipro-nil, water, fltrd 0.7u GF	Diazi-non, water, fltrd 0.7u GF	Dicro-tophos, water, fltrd 0.7u GF	Diel-drin, water, fltrd 0.7u GF	Dimeth-oate, water, fltrd 0.7u GF	Disulf-ton sulfone water, fltrd 0.7u GF	Disul-foton, water, fltrd 0.7u GF	Endo-sulfan sulfate water, fltrd 0.7u GF	EPTC, water, fltrd 0.7u GF	Ethion monoxon water, fltrd 0.7u GF	Ethion, water, fltrd 0.7u GF	Etho-prop, water, fltrd 0.7u GF	Fenami-phos sulfone water, fltrd 0.7u GF
May 05...	<.012	<.005	<.08	<.009	<.006	<.01	<.04	<.022	<.002	<.02	<.006	<.012	<.053

01442760 DUNNFIELD CREEK AT DUNNFIELD, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 4 of 7

[Remark codes: <, less than.]

Date	Fenami-phos sulf-oxide, water, fltrd, μg/L (61646)	Fenami-phos, water, fltrd, μg/L (61591)	Desulf-inyl-fipro-nil Fipro-sulfide nil water, wat flt μg/L (62169)	Fipro-nil Fipro-sulfone nil water, fltrd, μg/L (62167)	Fipro-nil Fipro-sulfone nil water, fltrd, μg/L (62168)	Fipro-nil Fipro-sulfone nil water, fltrd, μg/L (62166)	Fonofos water, fltrd, μg/L (04095)	Hexa-zinone, water, fltrd, μg/L (04025)	Ipro-dione, water, fltrd, μg/L (61593)	Isofen-phos, water, fltrd, μg/L (61594)	Mala-oxon, water, fltrd, μg/L (61652)	Mala-thion, water, fltrd, μg/L (39532)	Meta-laxyl, water, fltrd, μg/L (61596)
May 05...	<.20	<.03	<.029	<.013	<.024	<.020	<.010	<.008	<.01	<.006	<.020	<.016	<.007

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 5 of 7

[Remark codes: <, less than.]

Date	Methid-athon, water, fltrd, μg/L (61598)	Methyl para-thion, water, fltrd, μg/L (61664)	Methyl para-thion, water, fltrd, 0.7u GF (82667)	Metola-chlor, water, fltrd, μg/L (39415)	Metri-buzin, water, fltrd, μg/L (82630)	Moli-nate, water, fltrd, 0.7u GF (82671)	Myclo-butanol water, fltrd, μg/L (61599)	Oxy-fluor-fen, water, fltrd, μg/L (61600)	Pendi-methalin, water, fltrd, 0.7u GF (82683)	Phorate oxon, water, fltrd, μg/L (61666)	Phorate water, fltrd, 0.7u GF (82664)	Phosmet oxon, water, fltrd, μg/L (61668)	Phosmet water, fltrd, μg/L (61601)
May 05...	<.004	<.01	<.008	<.010	<.012	<.003	<.010	<.006	<.012	<.03	<.040	<.05	<.008

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 6 of 7

[Remark codes: <, less than.]

Date	Prome-ton, water, fltrd, μg/L (04037)	Prome-tryn, water, fltrd, μg/L (04036)	Propy-zamide, water, fltrd, 0.7u GF (82676)	Propy-zamide, water, fltrd, 0.7u GF (82679)	Propanil, water, fltrd μg/L (82685)	Propar-gite, water, fltrd μg/L (82685)	Simazine, water, fltrd μg/L (04035)	Tebu-thiuron water, fltrd μg/L (82670)	Teflu-thrin, water, fltrd μg/L (61606)	Terbufos sulfone water, fltrd, μg/L (61674)	Terbu-fos, water, fltrd, μg/L (82675)	Terbutyl-azine, water, fltrd, μg/L (04022)	Thio-bencarb, water, fltrd, μg/L (82681)	trans-Propi-conazole, water, fltrd, μg/L (79847)
May 05...	<.01	<.006	<.004	<.006	<.04	<.006	<.02	<.003	<.04	<.04	<.02	<.01	<.010	<.02

01442760 DUNNFIELD CREEK AT DUNNFIELD, NJ—Continued**WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO
SEPTEMBER 2008**

Part 7 of 7

[Remark codes: <, less than.]

Date	Tri- flur- alin, phos, water, water, filtrd, μg/L (61610)	chlor- vos, water, filtrd, 0.7u GF μg/L (82661)	Di- chlor- filtrd, μg/L (38775)
May 05...	<.035	<.009	<.01